

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
21 April 2005 (21.04.2005)

PCT

(10) International Publication Number  
**WO 2005/036924 A1**

(51) International Patent Classification<sup>7</sup>: **H04R 25/00**

(21) International Application Number:  
PCT/DK2004/000614

(22) International Filing Date:  
16 September 2004 (16.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
PA 2003 01502 10 October 2003 (10.10.2003) DK

(71) Applicant (for all designated States except US): **OTICON**  
A/S [DK/DK]; Strandvejen 58, DK-2900 Hellerup (DK).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **PETERSEN, Kim,**  
Spetzler [DK/DK]; c/o Oticon A/S, Strandvejen 58,  
DK-2900 Hellerup (DK).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

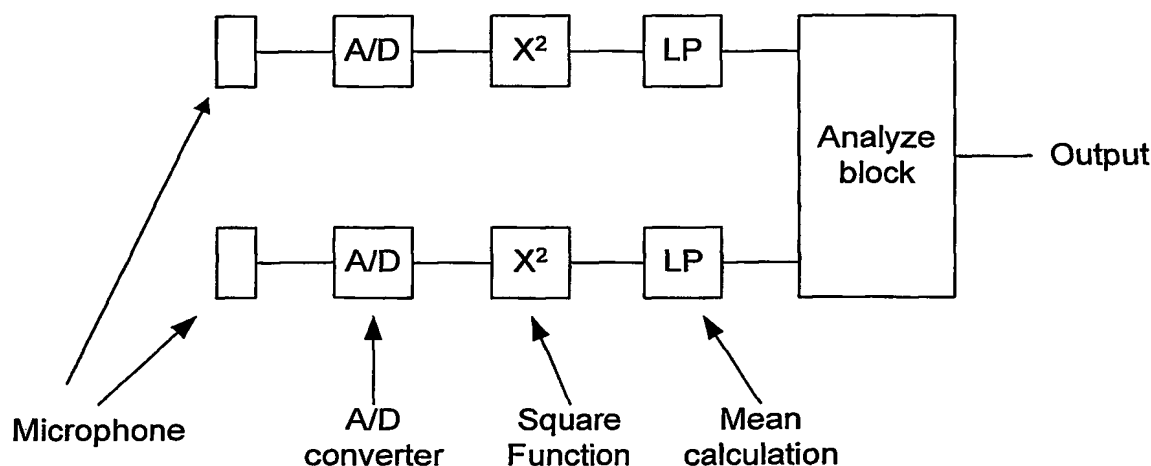
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR PROCESSING THE SIGNALS FROM TWO OR MORE MICROPHONES IN A LISTENING DE-  
VICE AND LISTENING DEVICE WITH PLURAL MICROPHONES



(57) Abstract: The invention comprises a method for processing the signals from two or more microphones in a listening device which has a casing holding the microphones, and which further comprises a signal processing unit which is to provide an output signal in correspondence with the microphone signals and suited to the users hearing whereby a receiver unit for delivering the output signal to the user is provided, whereby the signals from the microphones are analysed in order to detect when the casing of the listening device is being touched, whereby further the signal processing of the signal processing unit changes whenever touching of the casing is detected. The invention also comprises a listening device having two or more microphones wherein means are provided for detecting when the casing material is being touched.

WO 2005/036924 A1